

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/500098

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number
WO 03/059371 A1

(51) International Patent Classification⁷: A61K 35/78, 31/575, A61P 31/04, 31/06, A61K 31/616

(21) International Application Number: PCT/US01/50502

(22) International Filing Date:
28 December 2001 (28.12.2001)

(25) Filing Language: English

(26) Publication Language: English

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ANTI-BACTERIAL PLANT COMPOSITIONS

(57) Abstract: The invention provides a pharmaceutical composition which comprises a pharmaceutical carrier and at least one compound selected from the group consisting of cobaltacene-octomet, stigmastan-3,5-diene, galoxolide, benzyl salicylate, eucalyptol, and α -pinene. Also provided is a method of preparing a composition having antimicrobial activity comprising extracting a plant material in an organic solvent, contacting the extracted material to a chromatographic column, and eluting from the chromatographic column with a mobile polar phase to obtain a composition. The plant material is from *Mammea Americana*, *Marchantaceae polymorpha*, or *Callistemon citrinus*. Also provided is a method of inhibiting the growth of a mycobacterium, comprising administering a composition comprising a carrier and at least one compound selected from among cobaltacene-octomet, stigmastan, 3,5-diene, friedelin, galoxolide, benzyl salicylate, eucalyptol, and α -pinene.

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